BEST AVAILABLE COPY

AMENDMENTS TO THE DRAWINGS

Amendments have been made to the drawings to correct informalities, typographical errors and delete extraneous text, and were not necessitated to overcome any prior art.

Amendments are shown to Figs 13, 19, 24B, 24C, 39, 41, 44, 45A, 62A, 62B, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 84, 85, 86, 87, 88, 94, 95, 98, 99, 100, and 101 on the 33 attached Annotated Sheets Showing Changes. No new matter has been introduced by these amendments.

The attached 158 sheets of Replacement Drawings include changes to the figures to comply with 37 CFR 1.84 and replace the drawing sheets as originally filed. Several drawings as originally filed have been divided into two or more sheets in the Replacement Drawings to comply with 37 CFR 1.84. Several drawings were renumbered in the Description of Drawings in the Preliminary Amendment submitted upon filing, July 6, 1999. To avoid confusion and for the convenience of the Office, the figure/sheet correlations are shown in the following table:

Originally Filed	Replaced as	Replacement
Fig(s). No:	Fig(s). No.:	Sheet No.:
1	1	1
3	2	2
3	3A	3
	3B	4
4	4A	5 .
	4B	6
5	5	7
6	6A	8
	6B	9
7	7A	10
	7B	11
8	8A	12
	8B	13
	8C	14
9	9A	15
	9B	16
	9C	17
10	10A	18
Γ	10B	19
	10C	20
11	11	21
12	12	21
13	13	22
14	14A	23
14a	14B	23

Originally Filed Fig(s). No:	Replaced as Fig(s). No.:	Replacement Sheet No.:
15	15	24
16	16A	24
16a	16B	25
16b	16C	26
17	17	27
18	18	28
19	19	28
20	20	28
21	21	29
22	22	30
23	23A	31
	23B	32
24	24A	33
25	25	33
24a	24B-1	34
24a	24B-2	35
24b	24C-1	36
	24C-2	37
24c	24D-1	38
2-70	24D-2	39
	24D-3	40
-	24D-4	41
26	26A	42
20	26B	43
27	27	43
28	28A	45
²⁰	28B	46
<u>-</u> -	28C	47
29	29	48
30		<u> </u>
31	30	49
		50
32	32	50
33	33	50
34a	34A	51
34b	34B	
34c	34C	51
35	35	52
36	36	52
37	37	53
38	38	54
39	39A	55
	39B	56
40	40	57
41	41A	58
	41B	58
42	42	59
43	43	59

Originally Filed Fig(s). No:	Replaced as Fig(s). No.:	Replacement Sheet No.:
44	44	60
45	45A	61
45a	45B-1	62
[45B-2	63
46	46	57
47	47	64
48	48	65
49	49A	66
49a	49B	67
50	50	68
51	51	69
52	52	69
53a	53A	70
53b	53B	. 70
53c	53C	71
53d	53D	71,
53e	53E	72
53f	53F	72
54	54	73
55	55	74
56	56	75
57	57	76
58	58	77
59	59	78
60	60	79
61	61	79
62a	62A	80
62b	62B	81
63	63A	82
	63B	83
64	64	84
65	65	85
66	66	86
67	67	87
68	68	88
69	69	89
70	70	90
71	71	91
72	72	92
73	73	93
74	74	94
75	75	95
76	76	96
77	77	97
78	78	98
79	79	99
80	80	100

Originally Filed Fig(s). No:	Replaced as Fig(s). No.:	Replacement Sheet No.:
81	81	101
82	82	102
83	83	103
84	84	104
85	85	105
86	86	106
.87	87	107
88	88	108
89	89	109
90	90	110
91	91	110
92	92	111
93	93	112
94	94	113
95	95	113
96	96	114
97	97	115
98	98	115
99	99	116
100	100	117
101	101	117
102	102	118
103	103	119
104a	104A	120
104b	104B	120
104c	104C	121
104d	104D	121
104e	104E	122
104f	104F	122
105a	105A	123
105b	105B	123
105c	105C	124
105d	105D	124
105e	· 105E	125
106a	106A	126
106b	106B	126
107	107A	127
107	107B	128
<u> </u>	107C	129
108a	107C 108A-1	130
1000	108A-2	131
108b	108A-2 108B-1	132
1000	108B-2	133
·	108-B-3	134
109	108-B-3 109A	135
109	109A 109B	136
	しいろわ	130

Originally Filed	Replaced as	Replacement
Fig(s). No:	Fig(s). No.:	Sheet No.:
110	110A	138
Γ	110B	139
111	111	140
112	112	141
113	113	142
114a	114A-1	143
	114-A-2	144
114b	114B	144
115	115	145
116	116A	146
	116B	147
117	117A	148
	117B	149
	117C	150
	117D	151
118	118	152
119	119	153
120	120A	154
	120B	155
	120C	156
	120D	157
Prior Art A	121	158
Prior Art B	122	158

REMARKS

This paper is responsive to the Notice Regarding Drawings dated January 6, 2006.

Applicant submits Replacement Drawings herewith to correct informalities and comport with the requirements of 37 CFR 1.84.

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that, on the date shown below, this correspondence is being

- ☑ deposited with the US Postal Service with sufficient postage as first class mail and addressed as shown above.
- acsimile transmitted to the US Patent and Trademark Office.

Mark Zagorin

EXPRESS MAIL LABEL:

N/A

Respectfully submitted,

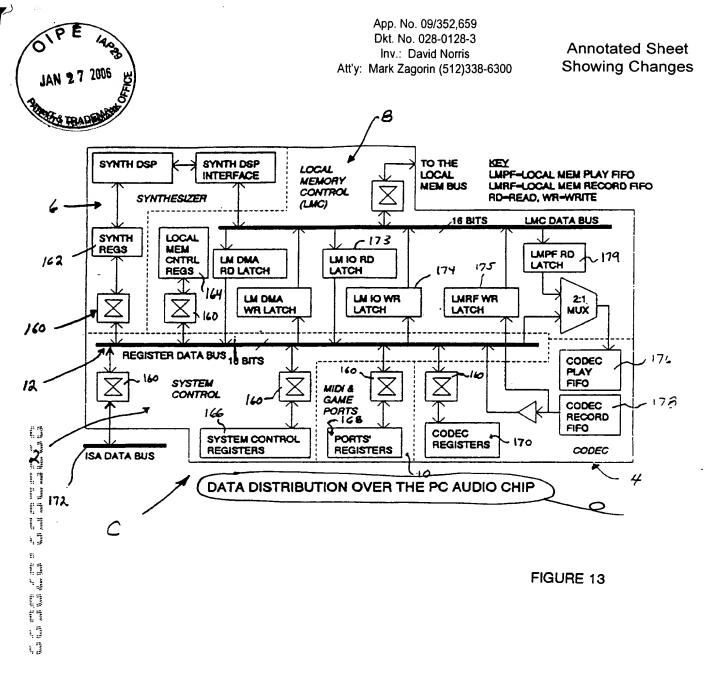
Mark Zagorin, Reg. No. 36,067

Attorney for Applicant(s)

(512) 338-6311 (direct)

(512) 338-6300 (main)

(512) 338-6301 (fax)



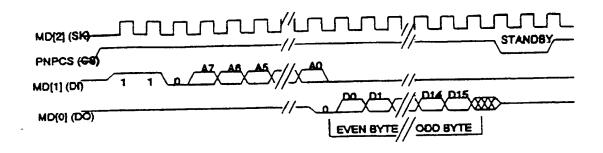


FIGURE 18

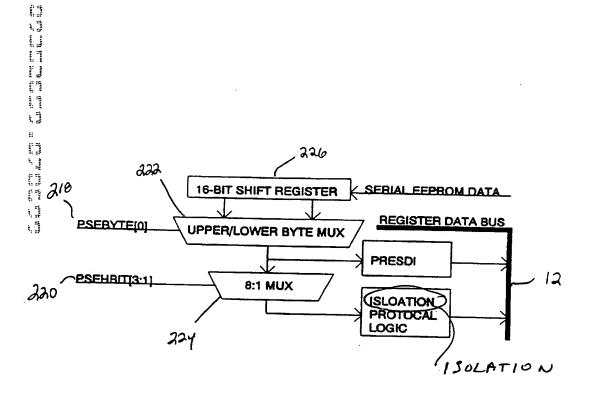


FIGURE 19

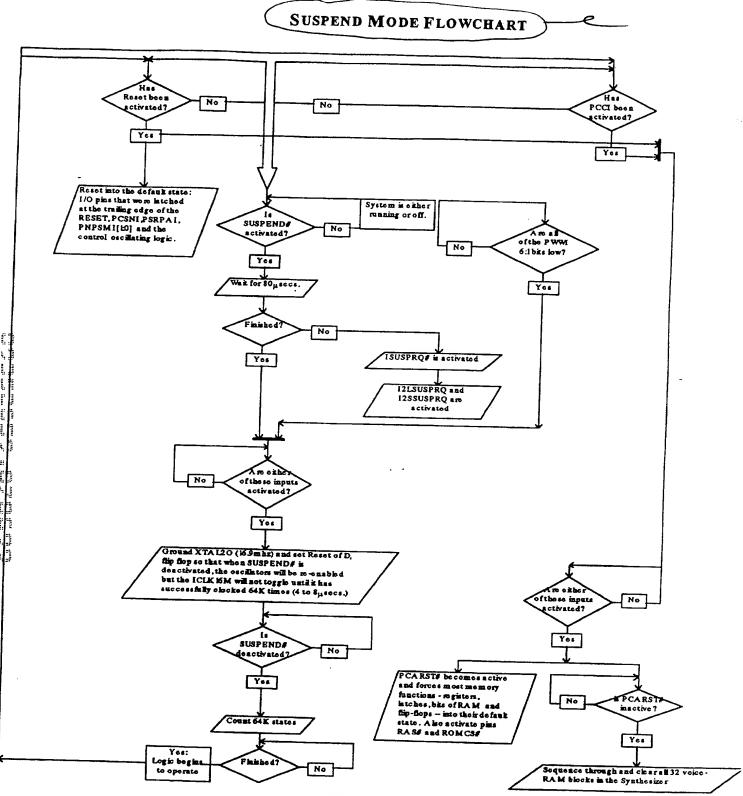
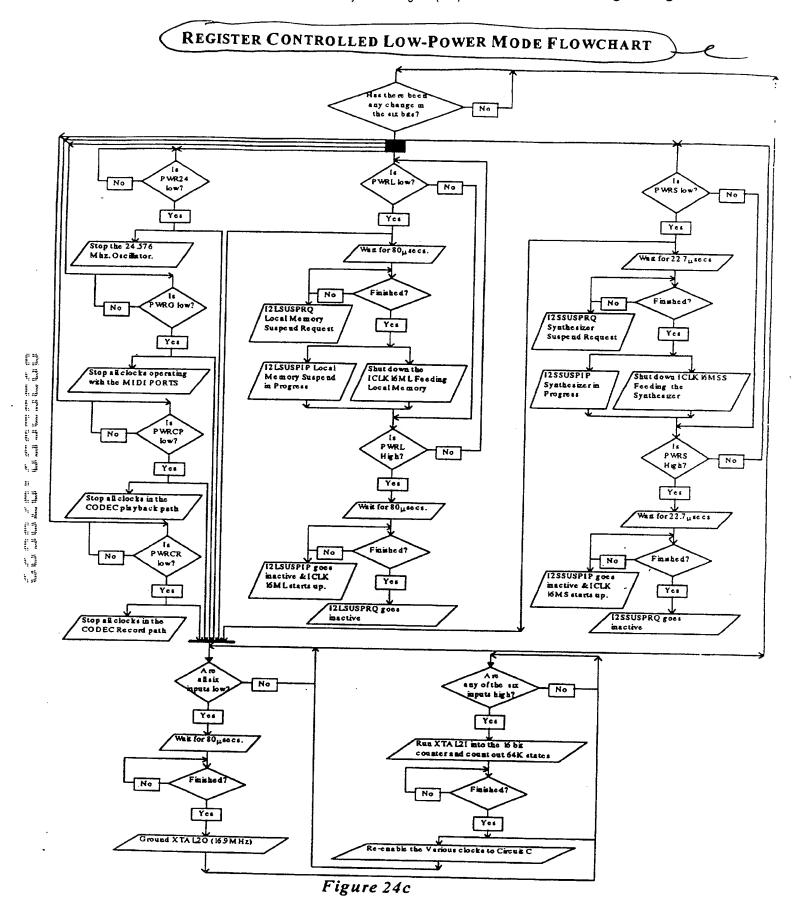
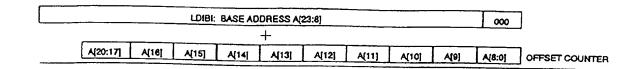


Figure 24b



App. No. 09/352,659 Dkt. No. 028-0128-3 Inv.: David Norris

Att'y: Mark Zagorin (512)338-6300



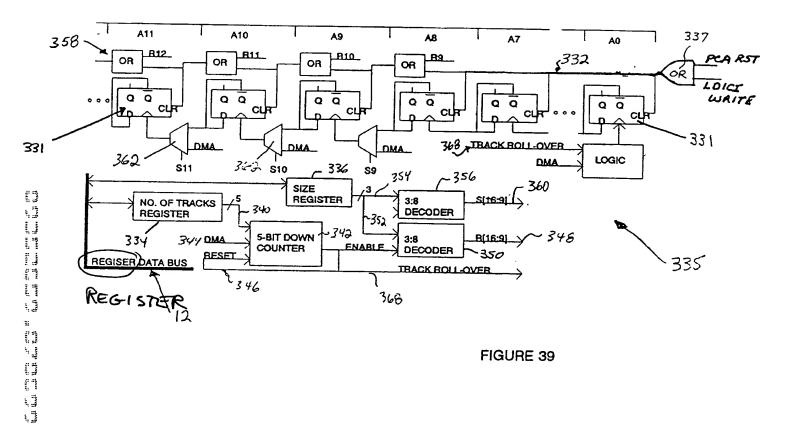
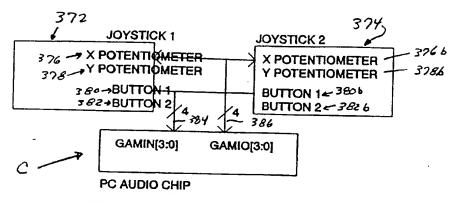


FIGURE 39

App. No. 09/352,659 Dkt. No. 028-0128-3 Inv.: David Norris

Inv.: David Norris
Att'y: Mark Zagorin (512)338-6300

Annotated Sheet Showing Changes



SYSTEM CONFIGURATION

FIGURE 40

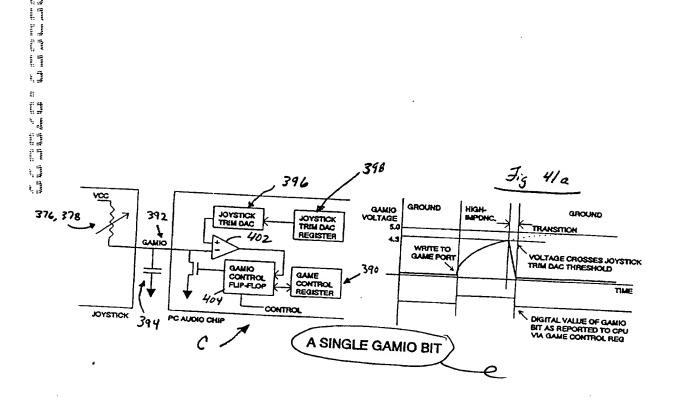
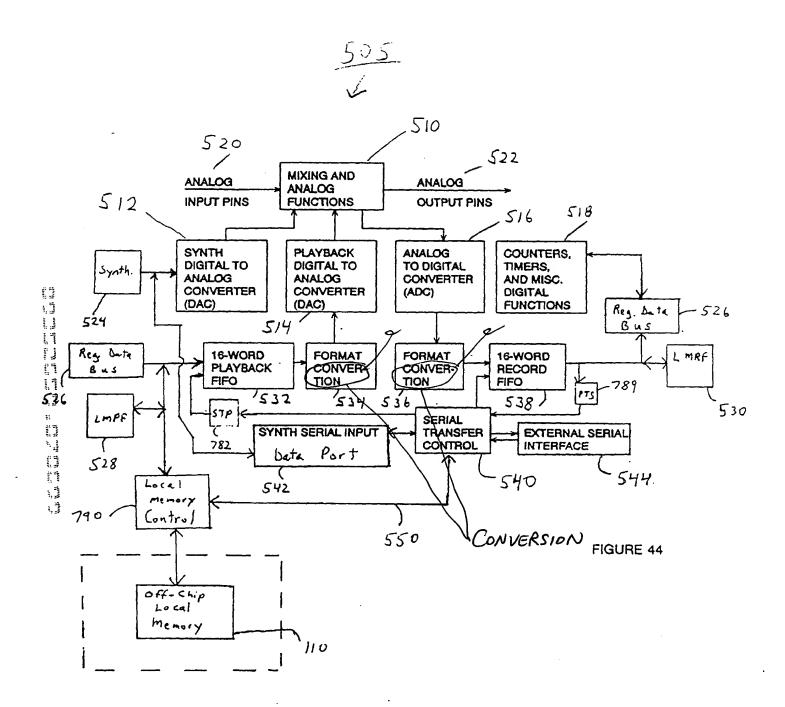


FIGURE 41



GAIN AND ATTENUATION VALUES

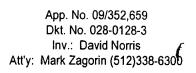
	9 to +22 Sc	B (4-lift) gain table	
Value dB	Value dB	Value dB	Value dB
00h 00.0	04h +06.0	08h +12.0	0Ch +18.0
01h +01.5	05h +07.5	09h +13.5	0Dh +19.5
02h +03.0	06h +09.0	0Ah +15.0	0Eh +21.0
03h +04.5	07h +10.5	0Bh +16.5	OFh +22.5

	0 to -45.0dB (4-b)	it) attenuation table	
Value dB	Value dB	Value dB	Value dB
00h 00.0	04h -12.0	08h -24.0	9Ch -36.0
01h -03.0	05h -15.0	09h -27.0	ODh -39.0
02h -06.0	06h -18.0	0Ah -30.0	0Eh -42.0
03h -09.0	07h -21.0	0Bh -33.0	OFh -45.0

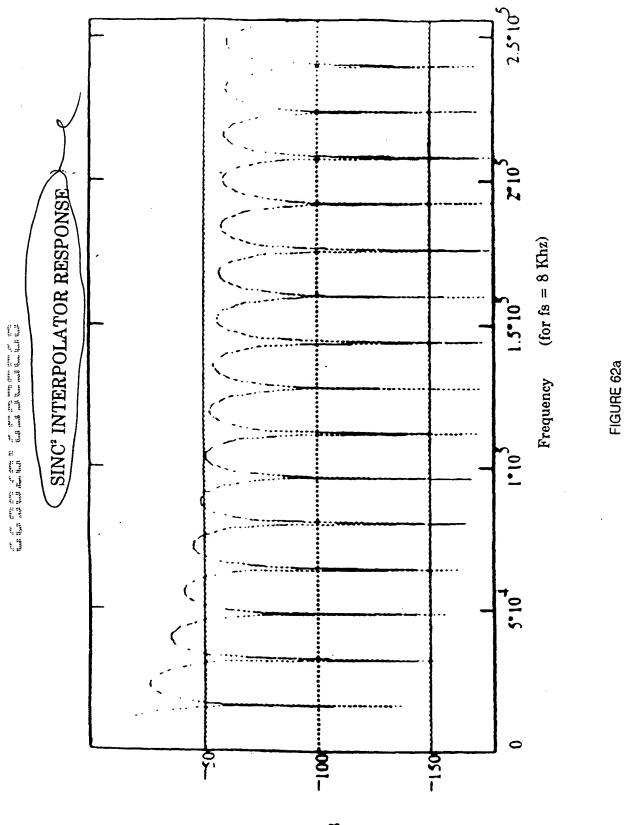
Value dB	Value dB	gain-attenuation table Value dB	Value dB
00h +12.0	08h 00.0	10h -12.0	18h -24.0
01h +10.5	09h -01.5	11h -13.5	19h -25.5
02h +09.0	0Ah -03.0	12h -15.0	1Ah -27.0
03h +07.5	0Bh -04.5	13h -16.5	1Bh -28.5
04h +06.0	0Ch -06.0	14h -18.0	1Ch -30.0
05h +04.5	ODh -07.5	15h -19.5	1Dh -31.5
06h +03.0 07h +01.5	0Eh -09.0	16h -21.0	1Eh -33.0

	to -46.5dB (5-bit) attenuatio	a table for CLUAI and CRO	DAI
Value dB	Value dB	Value dB	Value dB
00h 00.0	08h -12.0	10h -24.0	18h -36.0
01h -01.5	09h -13.5	11h -25.5	
02h -03.0	OAh -15.0	12h -27.0	19h -37.5
03h -04.5	OBh -16.5	13h -28.5	1Ah -39.0
04h -06.0	OCh -18.0		1Bh -40.5
05h -07.5	ODh -19.5	14h -30.0	1Ch -42.0
06h -09.0	OEh -21.0	15h -31.5	1Dh -43.5
07h -10.5	OFh -22.5	16h -33.0	1Eh -45.0

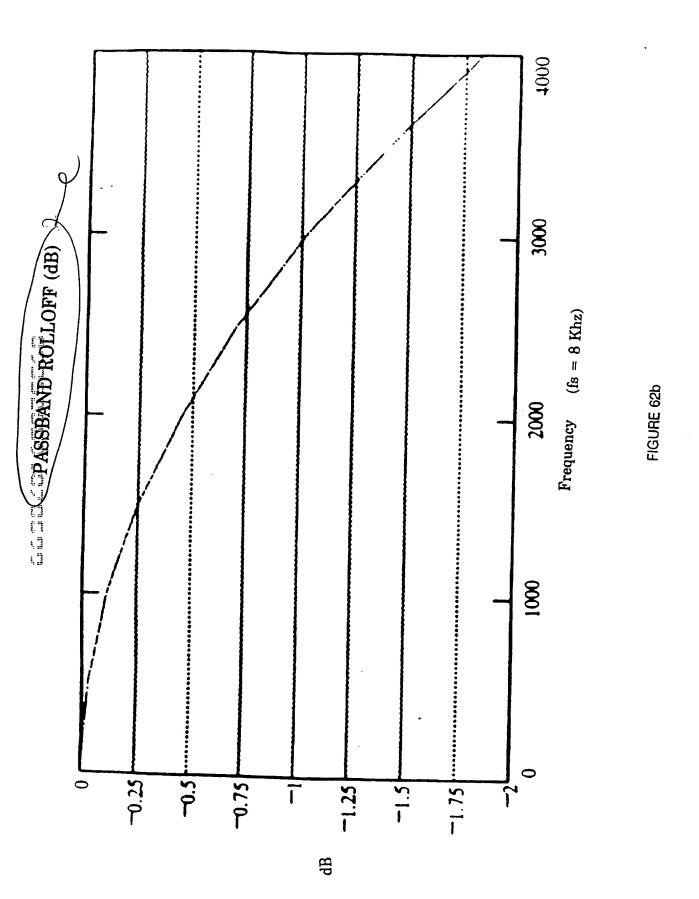
	0 to -94.5dB (6	bit) attenuation	table		
Value dB	Value dB	Value		Value	dB.
00h 00.0	10h -24.0		-48.0		-72.0
01h -01.5	11h -25.5		-49.5		-73.5
02h -03.0	12h -27.0		-51.0		-75.0
03h -04.5	13h -28.5		-52.5		-76.5
04h -06.0	14h -30.0		-54.0		-78.0
05h -07.5	15h -31.5	25h	-55.5		-79.5
06h -09.0	16h -33.0	26h	-57.0		-81.0
07h -10.5	17h -34.5	27h	-58.5		-82.5
09h -13.5	18h -36.0		-60.0		-84.0
0Ah -15.0	19h -37.5	29h	-61.5		-85.5
0Bh -16.5	1Ah -39.0		-63.0		-87.0
0Ch -18.0	1Bh -40.5		-64.5	3Bh	-88.5
0Dh -19.5	1Ch -42.0		-66.0	3Ch	-90.0
0Eh -21.0	1Dh -43.5		-67.5	3Dh	-91.5
OPh -22.5	1Eh -45.0 1Fh -46.5		-69.0 -70.5	3Eh	-93.0

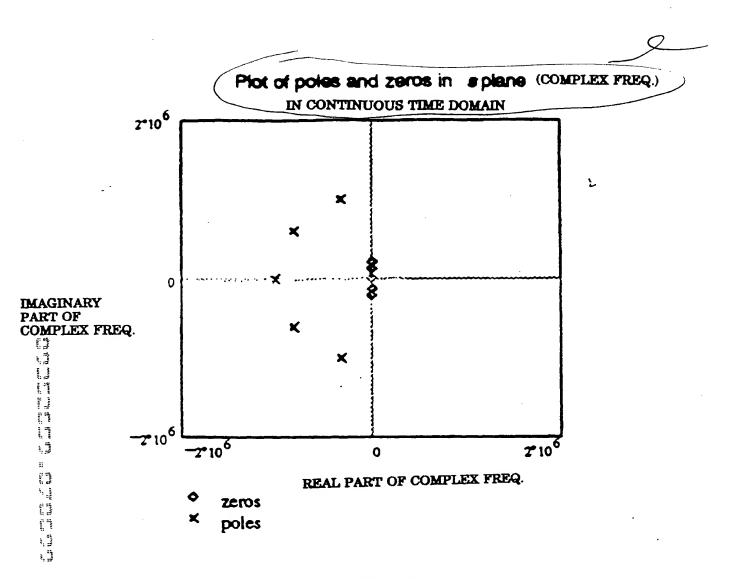


Annotated Sheet Showing Changes



(





Ĺ

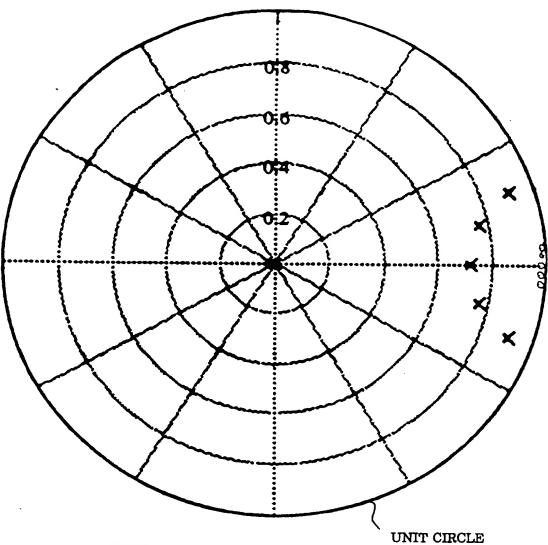
FIGURE 65

App. No. 09/352,659

Att'y: Mark Zagorin (512)338-6300 (

Annotated Sheet Showing Changes

POLES AND ZEROS IN Z PLANE (DIGITAL FREQUENCY DOMAIN)

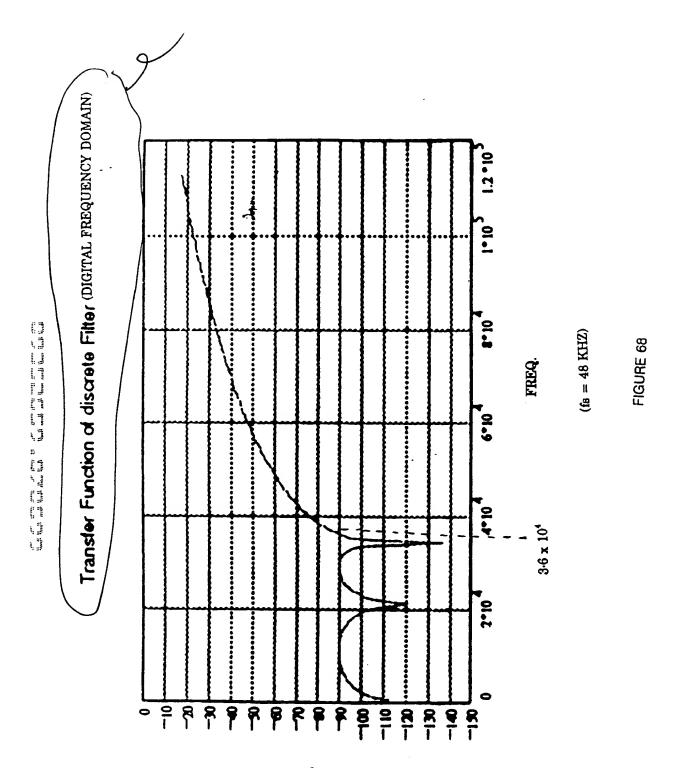


X = POLES

ينت بين بيسية بيسية بيسية ينسية البينة بينت ينسية سية ينسية بيسة ينسية بيسة البيمة البيمية البيمية المسيد المسيدة البيمية البيمية المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة المسيدة

O = ZEROS

FIGURE 67



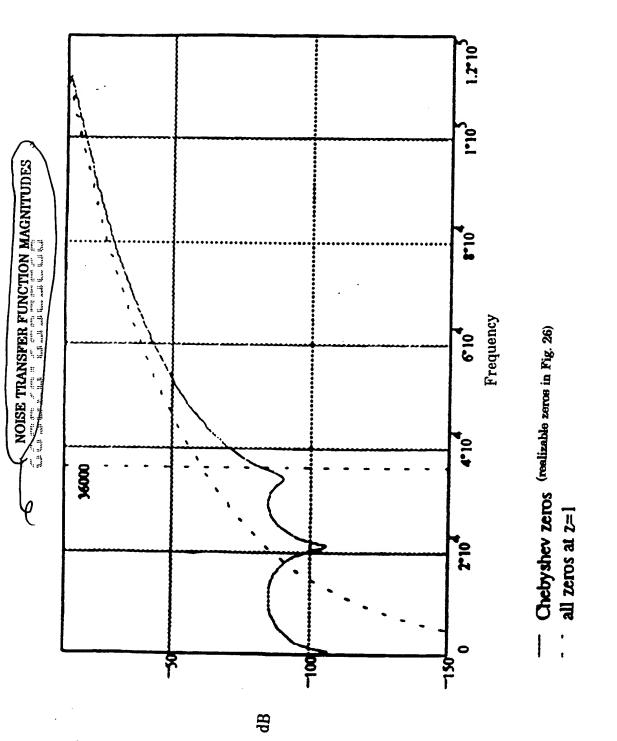
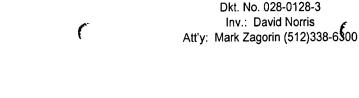
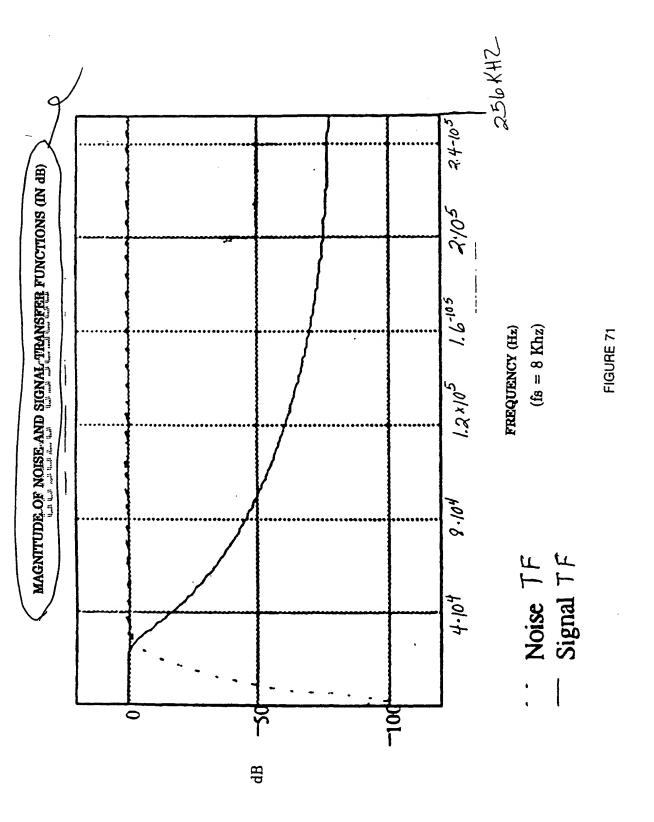
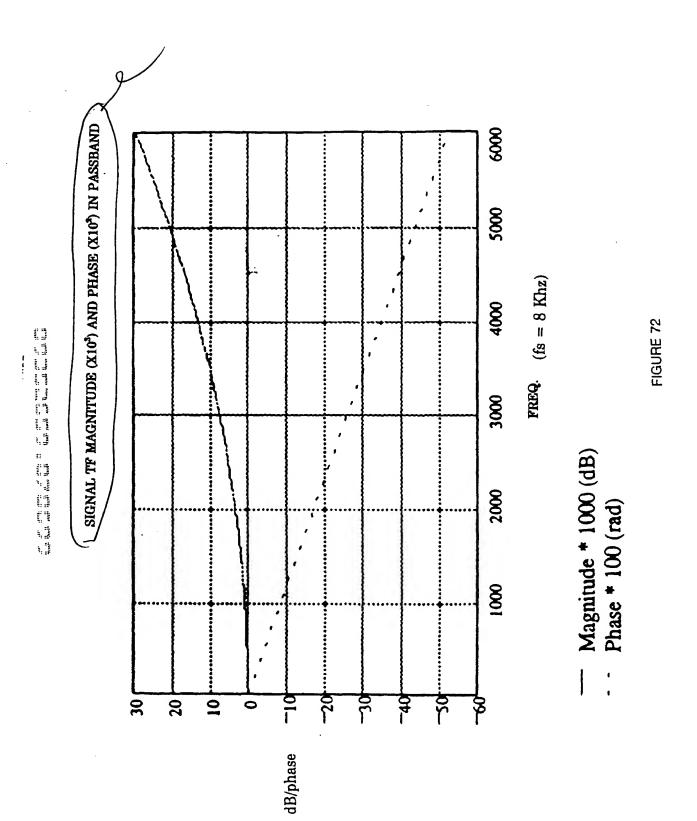
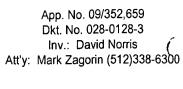


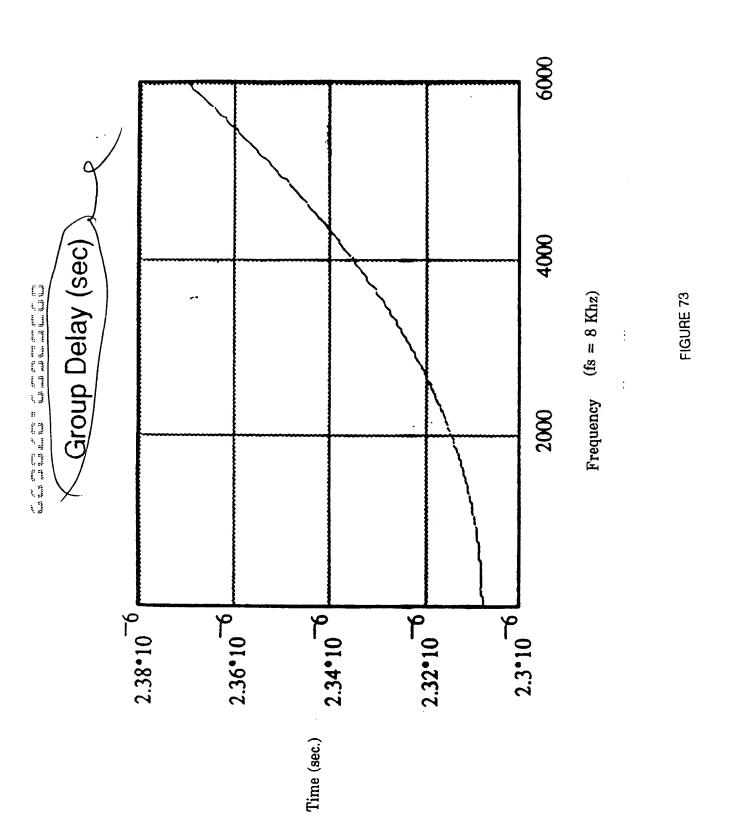
FIGURE 70

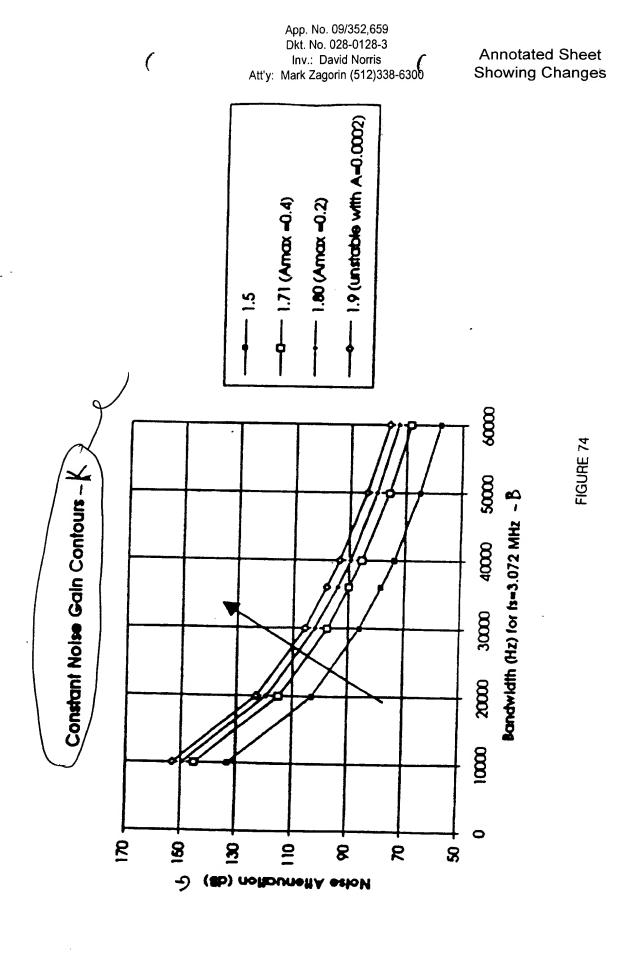




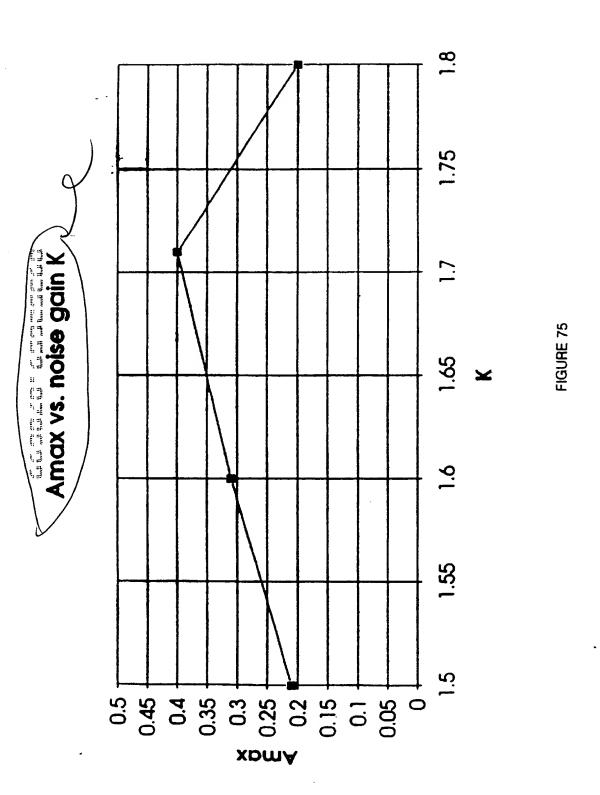








Inv.: David Norris Att'y: Mark Zagorin (512)338-6300



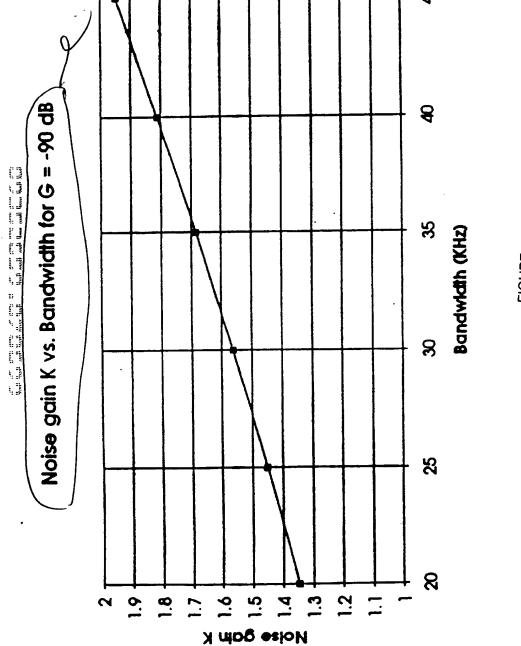
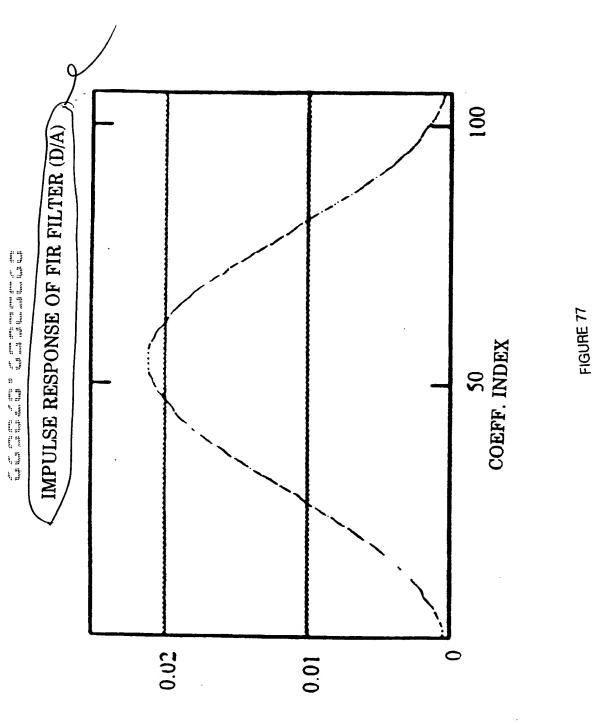
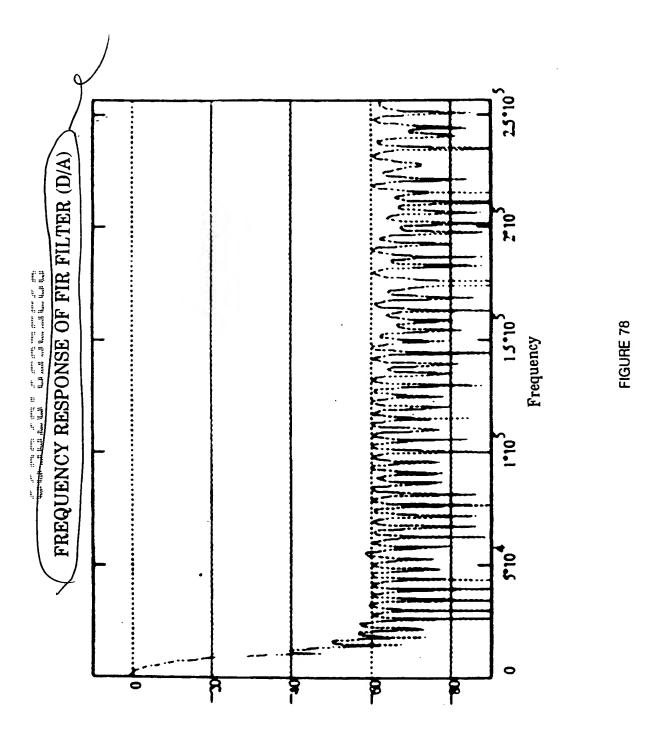
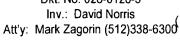


FIGURE 76







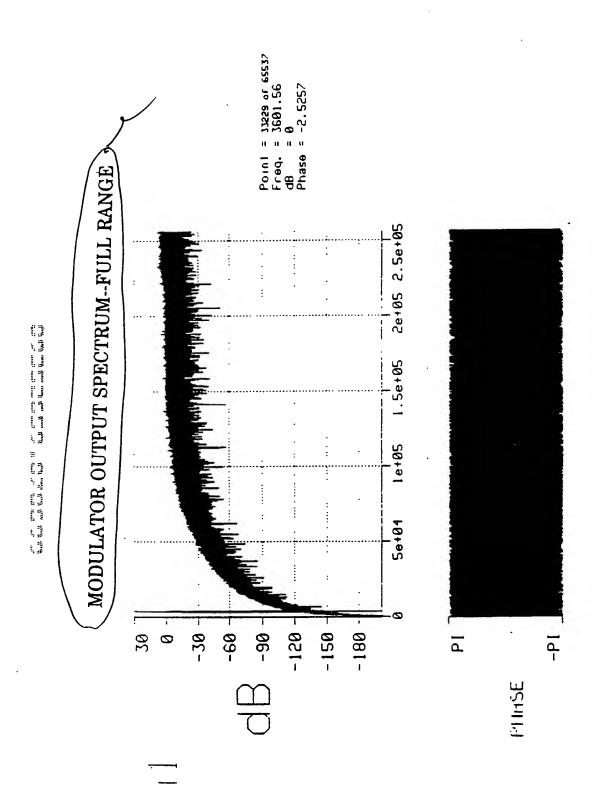
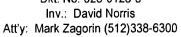


FIGURE 84



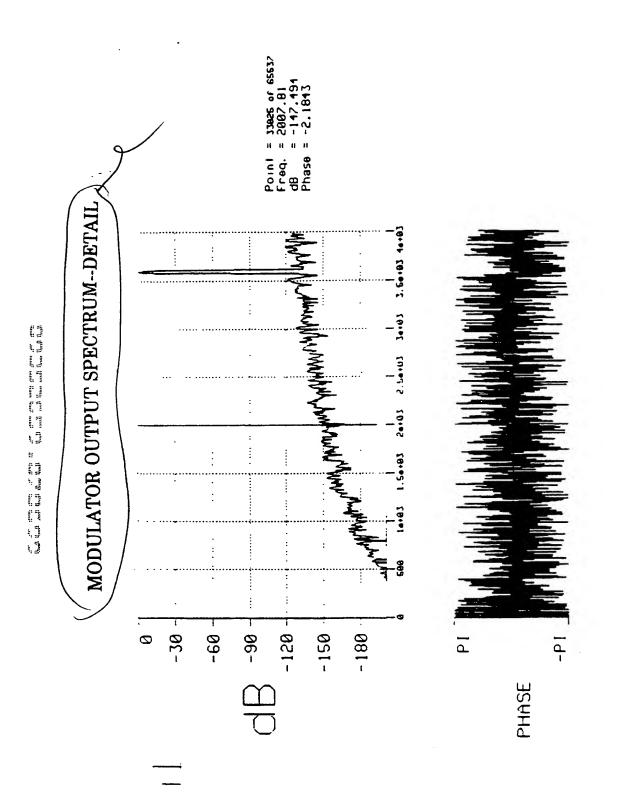


FIGURE 8



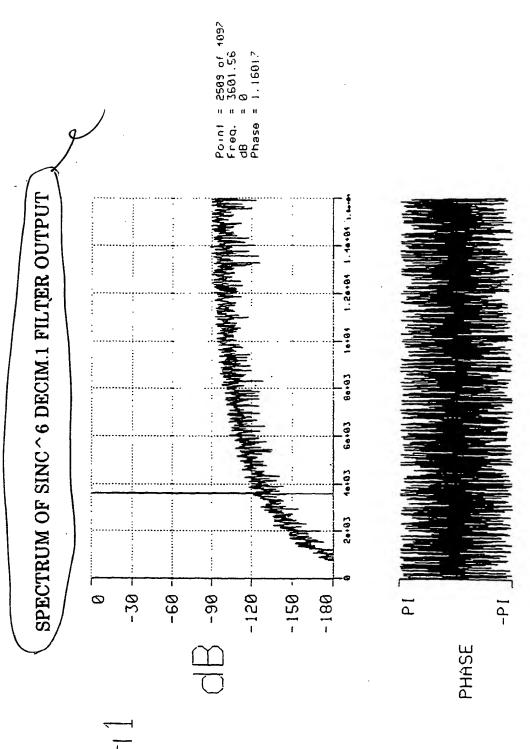


FIGURE 86



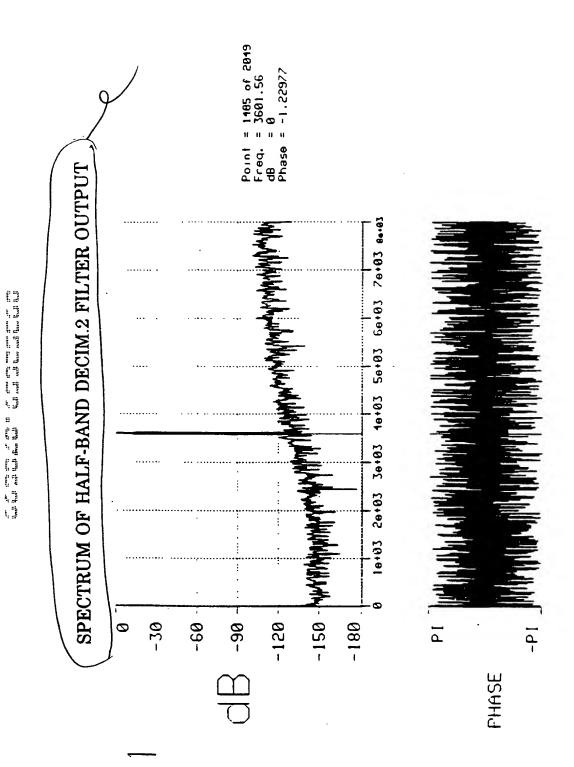


FIGURE 87

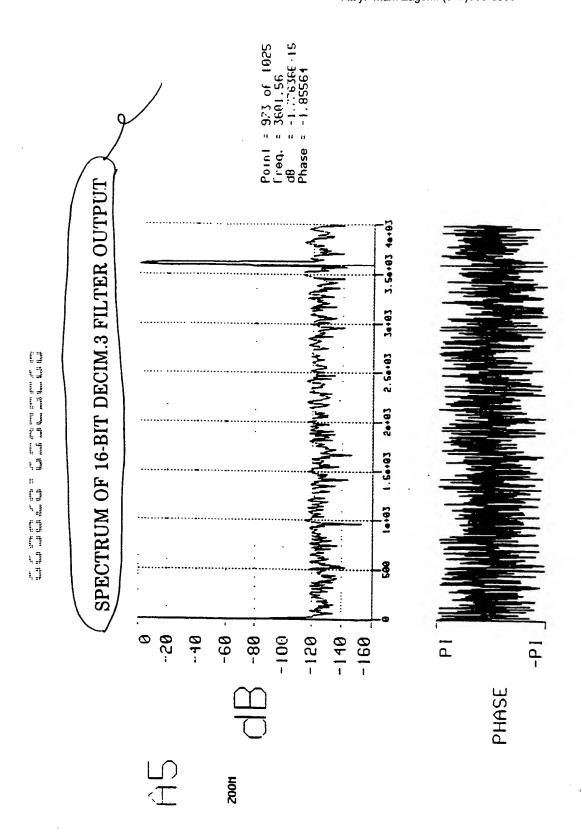
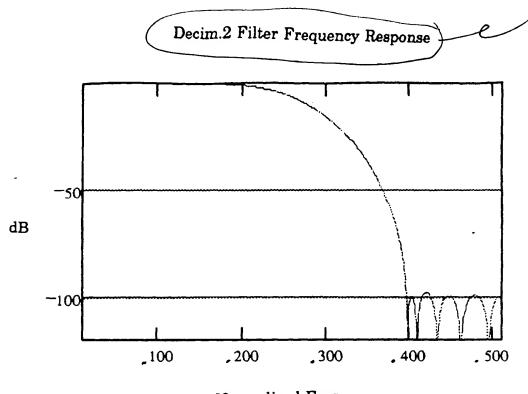


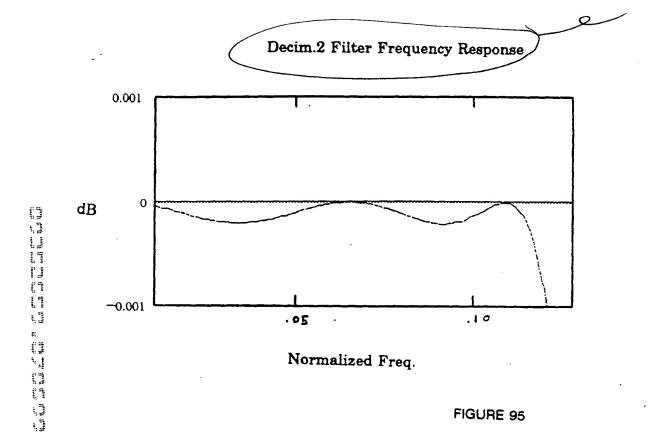
FIGURE 88

Inv.: David Norris
Att'y: Mark Zagorin (512)338-6300 (



Normalized Freq.

FIGURE 94



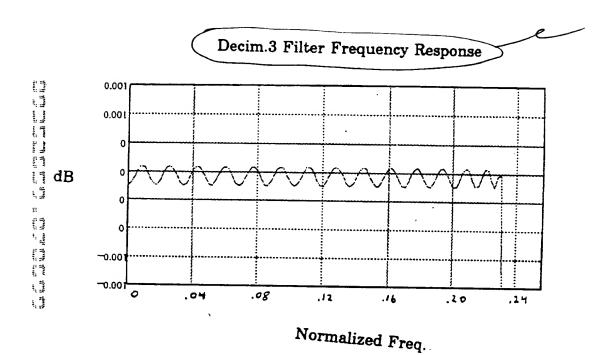
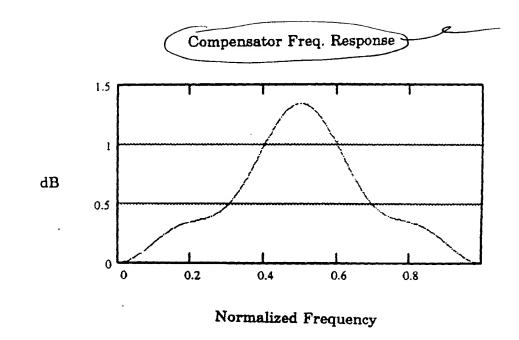


FIGURE 98



المسال المهمل المساور وسوال المساورة المهمل على التراقيع من يوسون بواسور من حمر المعرف المهمل المساورة المهمل المساورة المهمل ا

FIGURE 99

(

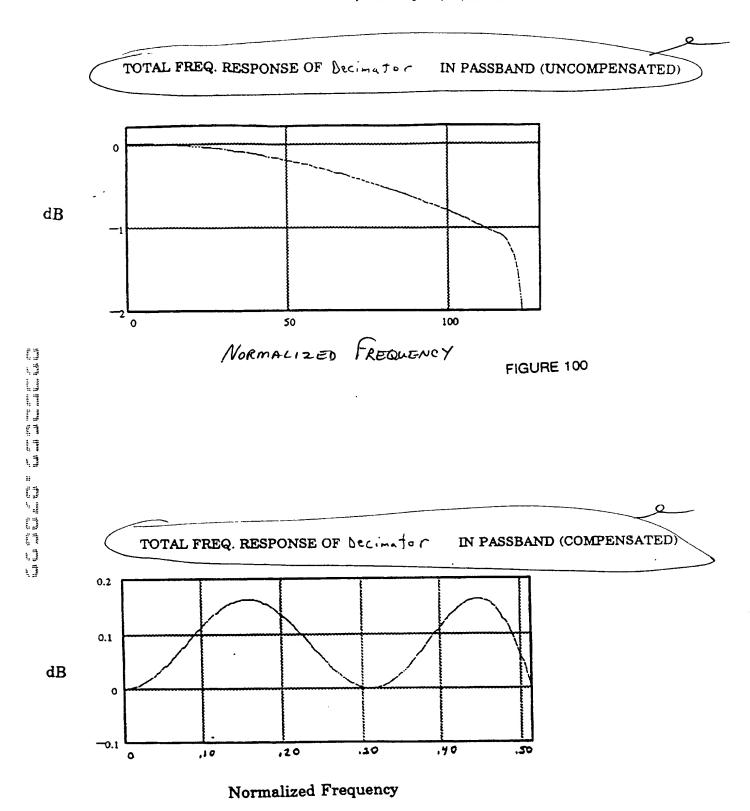


FIGURE 101

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.